

Steps to success for math in science

1. Write the numbers down, decide which equation to use - then write down your unknown
(Memorize the charts)

$$P_e = W/\Delta t : E = P_e \Delta t : I = q/\Delta t : V = IR$$

2. Isolate the unknown variable. **(Know a little algebra)**
3. Tap away on your calculator and ensure you have the right units **(Memorize the charts)**

Math workout/Practice problems

Here's your procedure.

-get a scrap peice of paper

- **do step one for all the questions, then step two**

-write out each questions in its appropriate section of your math section au complet.

1. A circuit contains two 1.5 volt batteries and a bulb with a resistance of 3 ohms. Calculate the current.
2. A circuit has a 24V and 13J what is its quantity of charge?
3. What is the voltage of a circuit with 15 amps of current and toaster with 8 ohms of resistance?
4. Over a period of 17s, a steady reading of 9C was recorded, what was the circuits intensity?
5. A lava lamp uses 60kJ over 7minutes, what is the power of the lamp?
6. A light bulb has a resistance of 4 ohms and a current of 2 A. What is the voltage across the bulb?
7. 25C and 12V flow through a circuit. What is its energy?
8. How much voltage would be necessary to generate 10 amps of current in a circuit that has 5 ohms of resistance?
9. My microwave was using 2kW of power, how much energy did it use if it ran 15min?
10. How many ohms of resistance must be present in a circuit that has 120 volts and a current of 10 amps?
11. 18J and 12C flow through a circuit, what is its voltage?
12. The quantity of charge measured was 13C and the intensity of the circuit is 1A, how much time elapsed?
13. An alarm clock draws 0.5 A of current when connected to a 120 volt circuit. Calculate its resistance.